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Anti-reflection plastic optical parts - obtd. by applying compsn. contg.
colloidal silica, silicon cpd. and hydrolysed silicon cpd.

Patent Assignee: NIPPON SHEET GLASS CO LTD (NIPG)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 58126502	A	19830728					198336 B
JP 90051163	B	19901106	JP 829895	A	19820125		199048

Priority Applications (No Type Date): JP 829895 A 19820125

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 58126502	A		8			

Abstract (Basic): JP 58126502 A

Optical parts are obtd. by forming anti-reflection film of 0.05-1 microns physical thickness on at least a surface of plastic optical part by applying a compsn. contg' one or more selected from colloidal silica, silicon cpd. of formula $R_1Si(OR_2)_4-a$ (I) (e.g. tetramethoxysilane, tetraethoxysilane, (3,3,3-trifluoropropyl) trimethoxysilane, etc.) and hydrolysate of the silicon cpd. and hardening. In (I), R_1 is organic gp. having a F atom, R_2 is 1-4C hydrocarbon gp., alkoxyalkyl gp. or 1-4C acyl gp., and a is 0-3.

Plastic optical parts are made of polycarbonate, polyacrylate, polystyrene, PVC, etc. The optical thickness of the anti-reflection film is 1000-2000 angstroms. The surface is plastic optical parts are previously imparted with e.g. polysiloxane system anti-abrasion film.

Plastic optical parts having abrasion resistance can be obtd.

Title Terms: ANTI; REFLECT; PLASTIC; OPTICAL; PART; OBTAIN; APPLY;
COMPOSITION; CONTAIN; COLLOID; SILICA; SILICON; COMPOUND; HYDROLYSIS;
SILICON; COMPOUND

Derwent Class: A89; G02; P73; P81

International Patent Class (Additional): B32B-027/00; C08J-007/04;

G02B-001/10

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A06-A00E1; A12-B07; A12-L03; G02-A05

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1292 0486 0304 0209 0759

Polymer Fragment Codes (PF):

001	013	04-	05-	062	064	143	155	157	158	229	38-	431	443	477	516	521	55-
																	57& 575
																	596 597 598 649
002	013	04-	05-	062	064	074	081	229	38-	431	443	477	516	521	55-	57& 575	
																	596 597 598 649 688
003	013	04-	05-	055	056	062	064	229	38-	431	443	477	516	521	55-	57& 575	
																	596 597 598 649 688
004	013	04-	05-	061	062	063	064	229	38-	431	443	477	516	521	55-	57& 575	
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